BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements of Roads and Drains in Balaji Layout and Surrounding areas in Ward No. 08, Kodigehalli.

Estimated Cost : Rs. 12.00 Lakhs

Job Code : 008-22-000007

Head of Account : P-3726 Zonal Public Works - POW Works

Name of Agency: Sri Siddesha, No. 141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore - 560032.

Work order No: BBMP/EE/BTP/WO/24/2022-23 Date: 22-04-2022.

	Measurements Recarded on :	30-06-2022						
Sl No.	**Description**	**No**	**L**	**B**	**D**	**Qty**	**Rate / Unit**	**Amount**
1	Removing and refixing stone slabs of drains and pointing						Sqm	
	Qty as per Premeasurement vide E-MB Page No. 01 is =					**30.75**	94.00	**2891.00**
2	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications						Cum	
	Qty as per Premeasurement vide E-MB Page No. 02 is =					**145.12**	175.00	**25396.00**
3	Providing and laying Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications						Cum	
	Qty as per Premeasurement vide E-MB Page No. 03 is =					**17.70**	4693.00	**83066.00**
4	Providing **TMT steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.						Tonne	
	Qty as per Premeasurement vide E-MB Page No. 04 is =					**2.55**	76553.00	**195210.00**
5	Providing laying palin / reinforced cement concrete for side drains using M 20 nominal mix concrete with OPC at 300 kgs with 20 mm and down size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed well compacted for walls and bottom including cenmtering shuttering form work etc. complete as per approved drawing and design MORTH Specification No. 1500,1700,2200 Wall & Bottom thickness 15cm						Cum	
	Raft Bottom Concrete							
	RCC Drain							
	Iroonbird Elevators Company Road	1	15.00	0.90	0.15	2.03		
		1	12.60	0.90	0.15	1.70		
	Vepaate Residency Road	1	15.00	0.90	0.15	2.03		
		1	15.00	0.90	0.15	2.03		
		1	7.00	0.90	0.15	0.95		
		1	5.00	0.90	0.15	0.68		9.40

Sl No.	Description	No	L	B	D	Qty	Rate / Unit	Amount
	Shadab Karnataka Mutton & Chicken Centre Road	1	4.00	0.90	0.15	0.54		
		1	15.00	0.90	0.15	2.03		
		1	15.00	0.90	0.15	2.03		
		1	4.00	0.90	0.15	0.54		
	Culverts							
	Iroonbird Elevators Company Road	1	5.80	1.00	0.15	0.87		
	Vepaate Residency Road	1	5.60	1.00	0.15	0.84		
	Cross Road	1	5.60	1.00	0.15	0.84		
		1	5.70	1.00	0.15	0.86		
	Side Walls							
	RCC Drain							
	Ironbird Elevators Company Road	2	15.00	0.15	0.60	2.70		
		2	12.60	0.15	0.60	2.27		
	Vepaate Residency Road	2	15.00	0.15	0.60	2.70		
		2	15.00	0.15	0.60	2.70		
		2	7.00	0.15	0.60	1.26		
		2	5.00	0.15	0.60	0.90		
	Shadab Karnataka Mutton & Chicken Centre Road	2	4.00	0.15	0.60	0.72		
		2	15.00	0.15	0.60	2.70		
		2	15.00	0.15	0.60	2.70		
		2	4.00	0.15	0.60	0.72		
	Culverts							
	Ironbird Elevators Company Road	2	5.80	0.20	0.60	1.39		
	Vepaate Residency Road	2	5.60	0.20	0.60	1.34		
	Cross Road	2	5.60	0.20	0.60	1.34		
		2	5.70	0.20	0.60	1.37		
						42.75		
						42.37	6531.00	**276718.00**

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Kodigehalli Sub Division

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BBMP, Bangalore

Sl No.	Description	No	L	B	D	Qty	Rate / Unit	Amount
	Measurements Recarded on : 30-05-2022							
6	Providing and fixing Pre cast covering slab 100mm thick made out of CC jelly 20mm down size with steel reinforcement including form work, curing, including cost of all materials, labours, hire charges of machinery, loading, unloading, lead and lift transportation etc complete as per engineer incharge.						Sqm	
	Covering Slab							
	Iroonbird Elevators Company Road	46	0.60	0.90		24.84		
	Vepaate Residency Road	70	0.60	0.90		37.80		
	Shadab Karnataka Mutton & Chicken Centre Road	64	0.60	0.90		34.56		
						97.20		
						96.38	1974.00	**190254.00**

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Sl No.	Description	No	L	B	D	Qty	Rate / Unit	Amount
	Measurements Recarded on : 30-06-2022							
7	Providing and fixing Pre cast reinforcement covering slab 200mm thick including cost of reinforcement as per design and drawing materials cost, labours, hire charges of machinery, loading, unloading, lead and lift transportation etc complete as per engineer incharge.						Sqm	
	Culvert Deck Slab							
	Iroonbird Elevators Company Road	10	0.60	1.20		7.20		
	Vepaate Residency Road	10	0.60	1.20		7.20		
	Cross Road	10	0.60	1.20		7.20		
		10	0.60	1.20		7.20		
						28.80		
						28.80	4578.00	**131846.00**
	Sub Total							**905381.00**
	GST Charges @ 12%							**108646.00**
							Total	**1014027.00**

30/6/22

Round off 1014000.00

30/6/22

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BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Improvements of Roads and Drains in Balaji Layout and Surrounding areas in Ward No. 08, Kodigehalli.

Estimated Cost : Rs. 12.00 Lakhs

Job Code : 008-22-000007

Head of Account : P-3726 Zonal Public Works - POW Works

Name of Agency: Sri Siddesha, No. 141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore - 560032.

Work order No: BBMP/EE/BTP/WO/24/2022-23 Date: 22-04-2022.

	Measurements Recarded on :	28.4.2022					
Sl No.	**Description**	**No**	**L**	**B**	**D**	**Qty**	**Rate / Unit**
1	Removing and refixing stone slabs of drains and pointing						Sqm
	Balaji Layout	1	15.00		0.75	11.25	
		1	5.50		0.75	4.13	
		1	15.00		0.75	11.25	
		1	6.00		0.75	4.50	
		Total Qty =				**31.13**	
		Qty Limited to Tender Qty =				**30.75**	

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Sl No.	Description	No	L	B	D	Qty	Rate / Unit
	Measurements Recarded on : 02-05-2024						
2	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications						Cum
	RCC Drain						
	Ironbird Elevators Company Road	1	15.00	1.00	1.00	15.00	
		1	12.60	1.00	1.00	12.60	
	Vepaate Residency Road	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	7.00	1.00	1.00	7.00	
		1	5.00	1.00	1.00	5.00	
	Shadab Karnataka Mutton & Chicken Centre Road	1	4.00	1.00	1.00	4.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	4.00	1.00	1.00	4.00	
	Culverts						
	Ironbird Elevators Company Road	1	5.80	1.20	1.00	6.96	
	Vepaate Residency Road	1	5.60	1.20	1.00	6.72	
	Cross Road	1	5.60	1.20	1.00	6.72	
		1	5.70	1.20	1.00	6.84	
	Desilting of Drain						
	Balaji Layout	1	15.00	0.50	0.50	3.75	
		1	5.50	0.50	0.50	1.38	
		1	15.00	0.50	0.50	3.75	
		1	6.00	0.50	0.50	1.50	
		Total Qty =				**145.22**	
		Qty Limited to Tender Qty =				**145.12**	

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Sl No.	Description	No	L	B	D	Qty	Rate / Unit
	Measurements Recarded on : 4-5-2022						
3	Providing and laying Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications						Cum
	RCC Drain						
	Ironbird Elevators Company Road	1	15.00	0.90	0.15	2.03	
		1	12.60	0.90	0.15	1.70	
	Vepaate Residency Road	1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	7.00	0.90	0.15	0.95	
		1	5.00	0.90	0.15	0.68	
	Shadab Karnataka Mutton & Chicken Centre Road	1	4.00	0.90	0.15	0.54	
		1	15.00	0.90	0.15	2.03	
		1	15.00	0.90	0.15	2.03	
		1	4.00	0.90	0.15	0.54	
	Culverts						
	Ironbird Elevators Company Road	1	5.80	1.00	0.15	0.87	
	Vepaate Residency Road	1	5.60	1.00	0.15	0.84	
	Cross Road	1	5.60	1.00	0.15	0.84	
		1	5.70	1.00	0.15	0.86	
		Total Qty =				**17.93**	
		Qty Limited to Tender Qty =				**17.70**	

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Sl No.	Description	No	L	B	D	Qty	Rate / Unit
	Measurements Recarded on : 10-5-2022						
4	Providing **TMT steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.						Tonne
	RCC Drain	**No**	**L**	**Mtrs**			
	Ironbird Elevators Company Road						
	10 mm 'U' Shape	185	2.20	407.00	A		
	8 mm Horizontal	15	27.60	414.00	B		
	Vepaate Residency Road						
	10 mm 'U' Shape	281	2.20	618.20	A		
	8 mm Horizontal	15	42.00	630.00	B		
	Shadab Karnataka Mutton & Chicken Centre Road						
	10 mm 'U' Shape	254	2.20	558.80	A		
	8 mm Horizontal	15	38.00	570.00	B		
	Culvert						
	Ironbird Elevators Company Road						
	16 mm Double Mat 'U' Shape	48	2.20	105.60	C		
	12 mm Horizontal	16	5.80	92.80	D		
	Vepaate Residency Road						
	16 mm Double Mat 'U' Shape	47	2.20	103.40	C		
	12 mm Horizontal	16	5.60	89.60	D		
	Cross Road						
	16 mm Double Mat 'U' Shape	47	2.20	103.40	C		
	12 mm Horizontal	16	5.60	89.60	D		
	Cross Road						
	16 mm Double Mat 'U' Shape	38	2.20	83.60	C		
	12 mm Horizontal	16	5.70	91.20	D		
				Mtrs	**Kg/m**	**Kgs**	
	Total Qty 16 mm		C	**396.00**	1.58	**625.68**	
	Total Qty 12 mm		D	**363.20**	0.89	**323.25**	
	Total Qty 10 mm		A	**1584.00**	0.62	**982.08**	
	Total Qty 8 mm		B	**1614.00**	0.39	**629.46**	
						2560.47	
				Total Qty =		**2.56**	
	Limited to Tender Qty			**Qty Limited to Tender Qty =**		**2.55**	76553.00

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